10

14   50   16   20   18

#1 HOST   12   #1 SCSI   #1 TARGET
                                         ROUTER   DEVICE
            50   50

FIG. 1

#1 TARGET   #2 TARGET
FIFO QUEUE   FIFO QUEUE

| B |
| C |

24

| E |
| |

36

10

14   50   16   20   #1 TARGET   18
                                                            DEVICE
#1 HOST   #1 SCSI
                        50   50   ROUTER   #2 TARGET   28
                                                     DEVICE
                                                            20
                   12

                                         #2 SCSI   20 #3 TARGET   32
                                                            DEVICE
#2 HOST   ROUTER
            50   50   #4 TARGET   34
22   30   DEVICE

FIG. 2

FIG. 3

FIG. 4

MEMORY MODULE

84

EMPTY	EMPTY	EMPTY												
BUFFER A 86	BUFFER B 86	BUFFER C 86	BUFFER D 86	BUFFER E 86	BUFFER F 86	BUFFER G 86	BUFFER H 86	BUFFER I 86	BUFFER J 86	BUFFER K 86	BUFFER L 86	BUFFER M 86	BUFFER N 86	BUFFER O 86

EMPTY BUFFER QUEUE

88

A 90	C 90	D 90	∘ ∘ ∘

FIG. 5

TARGET DEVICE 56

1 MEG READ COMMAND AND 64K BUFFER — 94

64K DATA PLUS BUFFER REQUEST — 96

64K DATA BUFFER — 98

64K DATA PLUS BUFFER REQUEST — 100

64K BUFFER — 102

64K DATA AND BUFFER REQUEST — 104

END — 106

SCSI ROUTER 54

ALLOCATE THREE 64K BUFFERS AND PLACE ON QUEUE

ISSUE 64K BUFFER — 102

ALLOCATE 64K BUFFER AND PUT ON BOTTOM OF QUEUE

END

READ (1 MEG) — 92

MSG

64K DATA — 102

END — 106

FIBER CHANNEL HOST 52

10

FIG. 6

TARGET
DEVICE 108

SCSI
ROUTER 54

FIBER
CHANNEL
HOST 52

110 WRITE (1 MEG) MSG

112 XFR 64K

114 64K DATA

116 64K WRITE COMMAND
PLUS 64K DATA

SET XFR
LENGTH TO
64K AND SEND

COMMAND COMPLETE 118

120 XFR 64K

122 64K DATA

124

SET XFR LENGTH
AND RELATIVE
WRITE OFFSET
AND SEND

126 64K WRITE COMMAND
PLUS 64K DATA

COMMAND COMPLETE 128

130 END

130 END

130 END

10

FIG. 7

FIBER CHANNEL HOST 52

SCSI ROUTER 54

TARGET DEVICE 108

10

1 MEG READ COMMAND 140

64K READ COMMAND AND BUFFER 142

ALLOCATE 64K BUFFERS, SET XFR LENGTH AND SEND

64K DATA AND COMMAND COMPLETE MESSAGE 144

ALLOCATE 64K BUFFER, SET RELATIVE READ OFFSET AND XFR LENGTH AND SEND 146

64K READ COMMAND AND 64K BUFFER 148

64K DATA AND COMMAND COMPLETE MESSAGE 150

64K DATA 150

END 152